

FIG. 1A

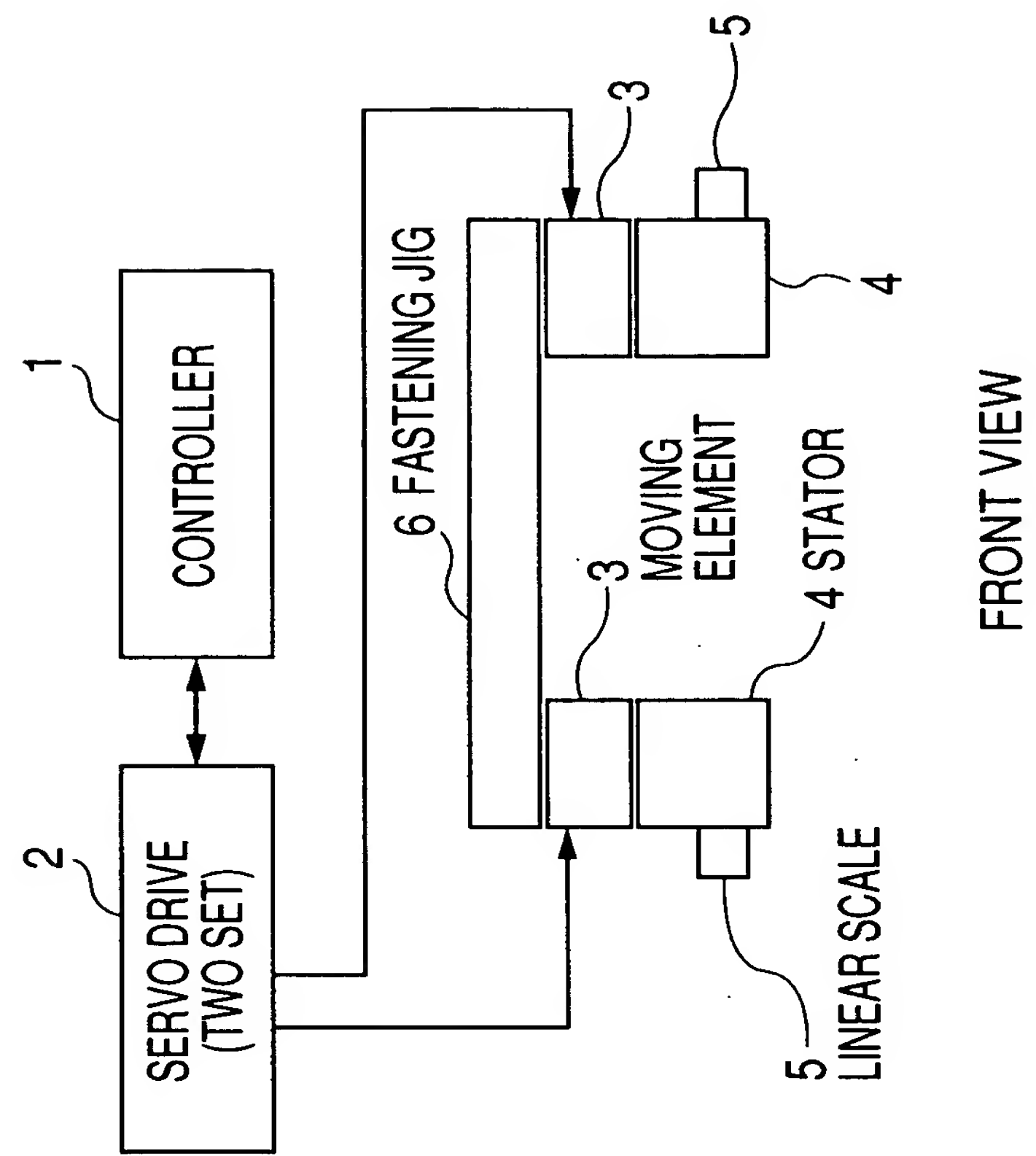


FIG. 1B

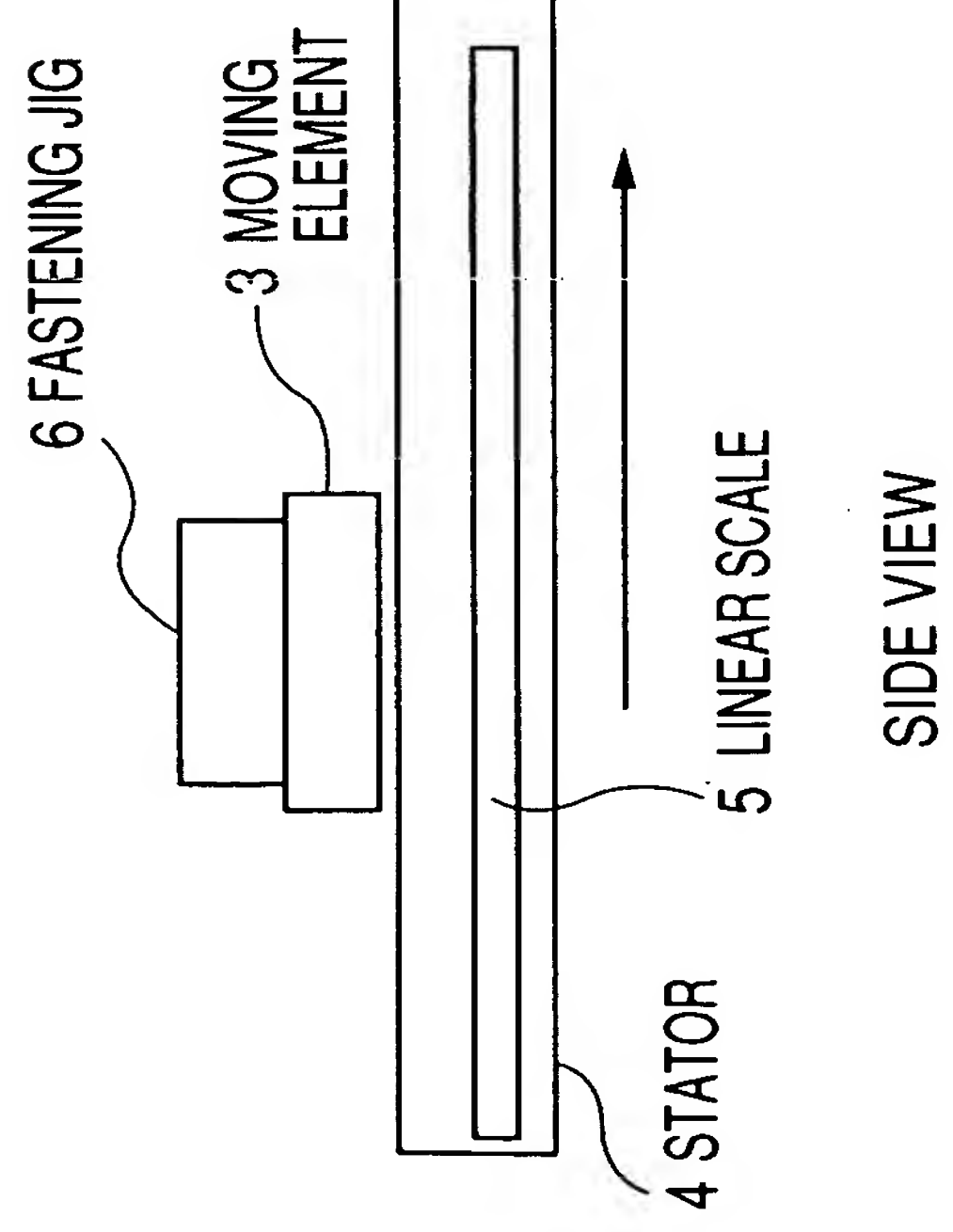


FIG. 1C

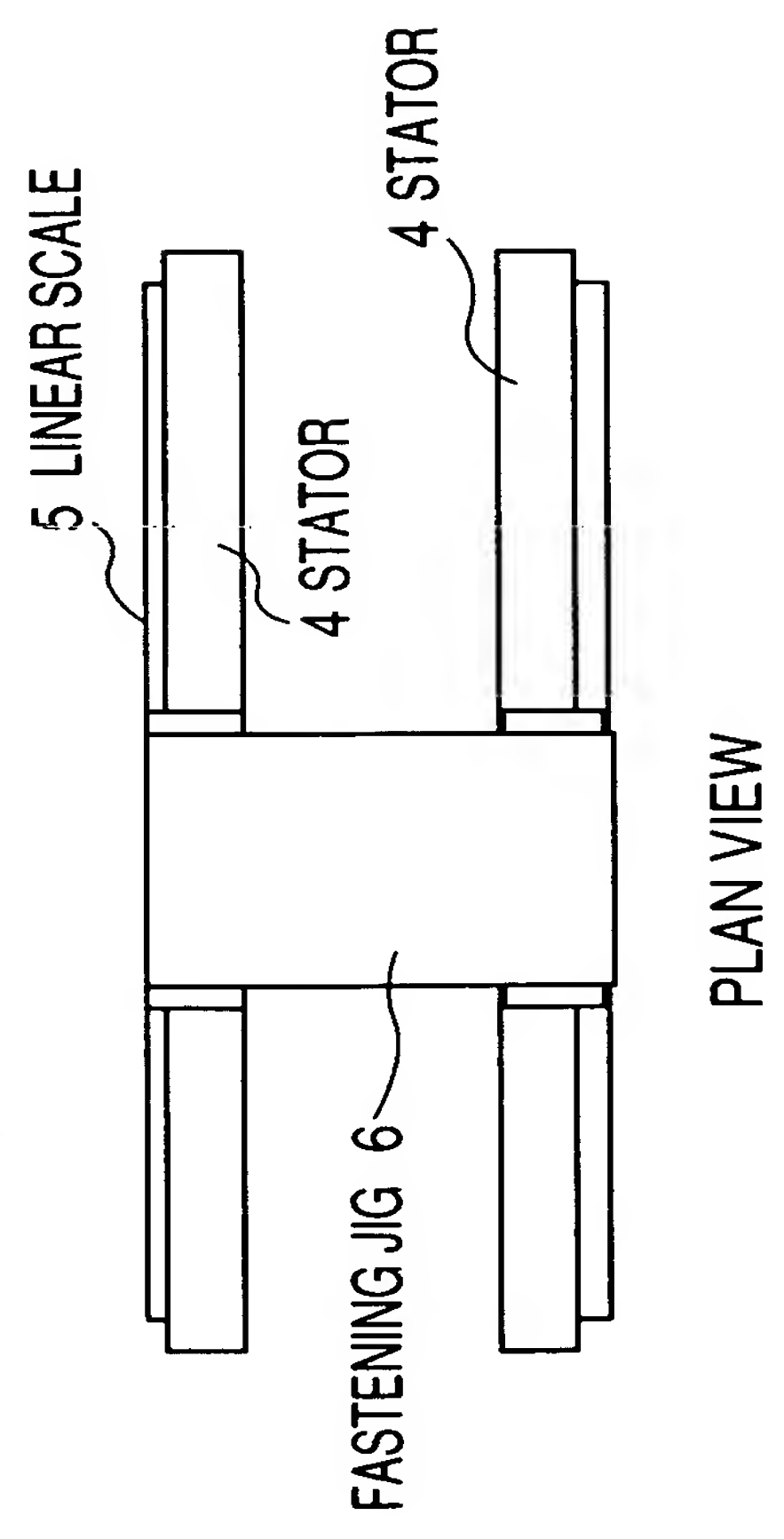


FIG. 2

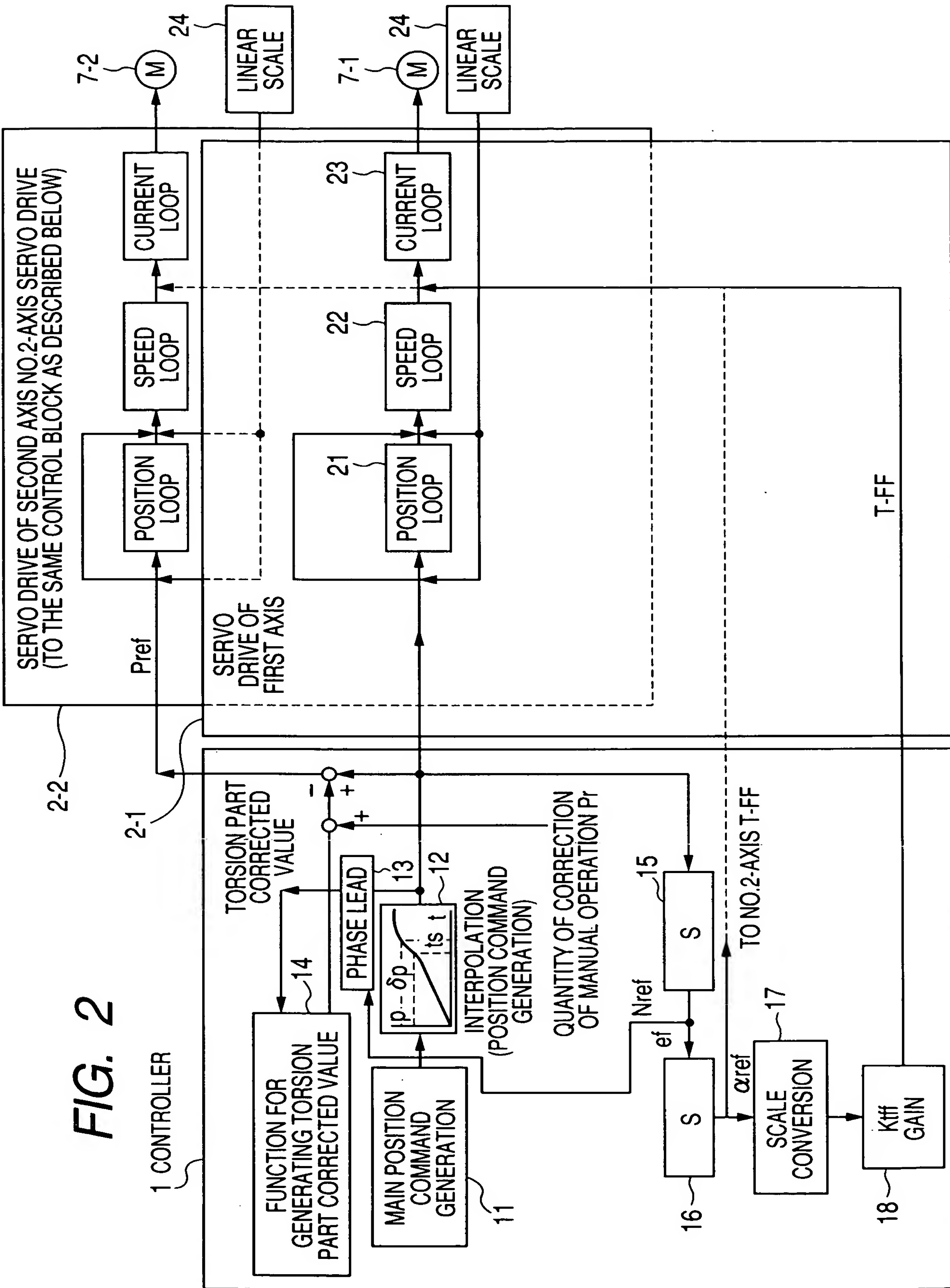


FIG. 3

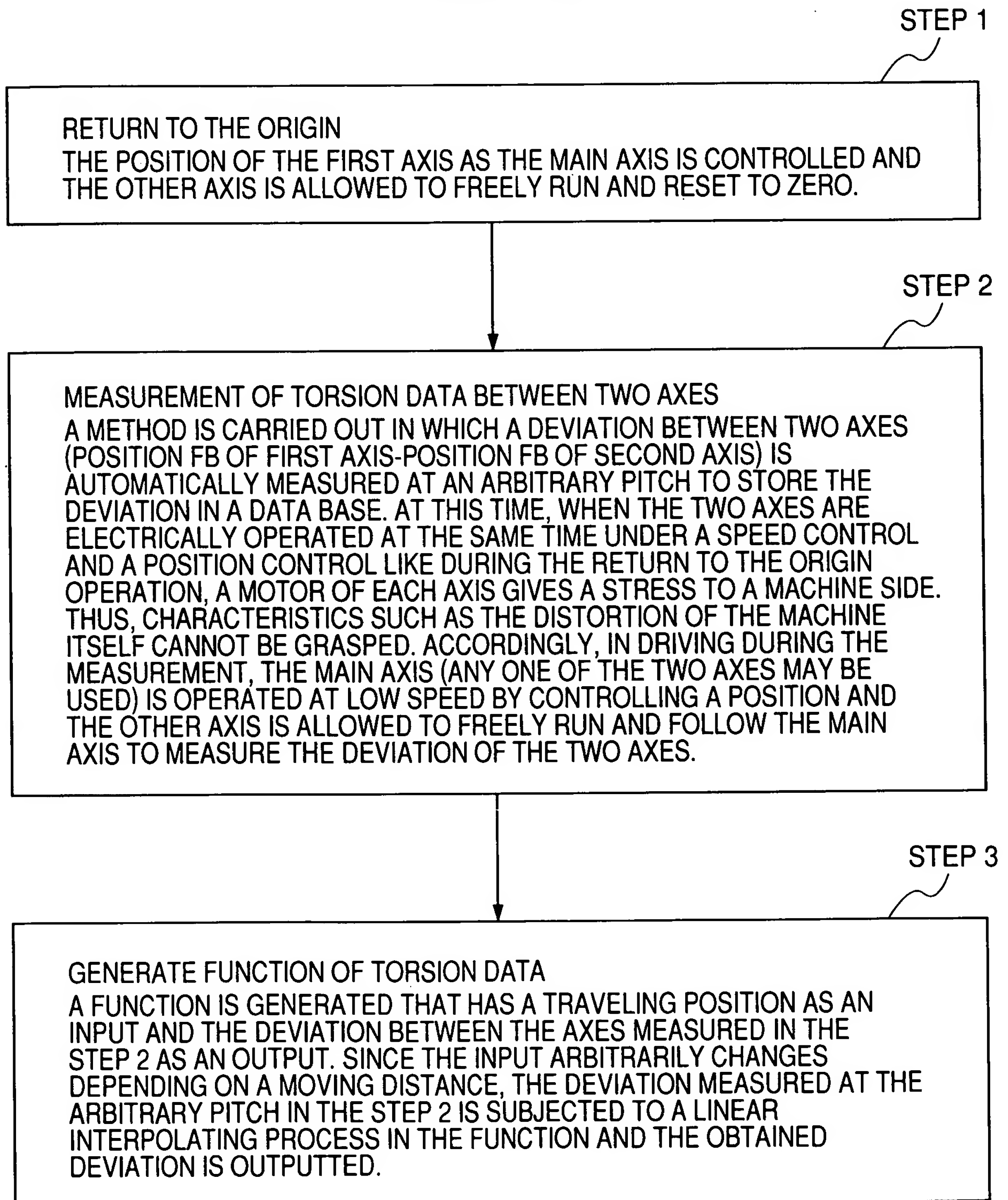
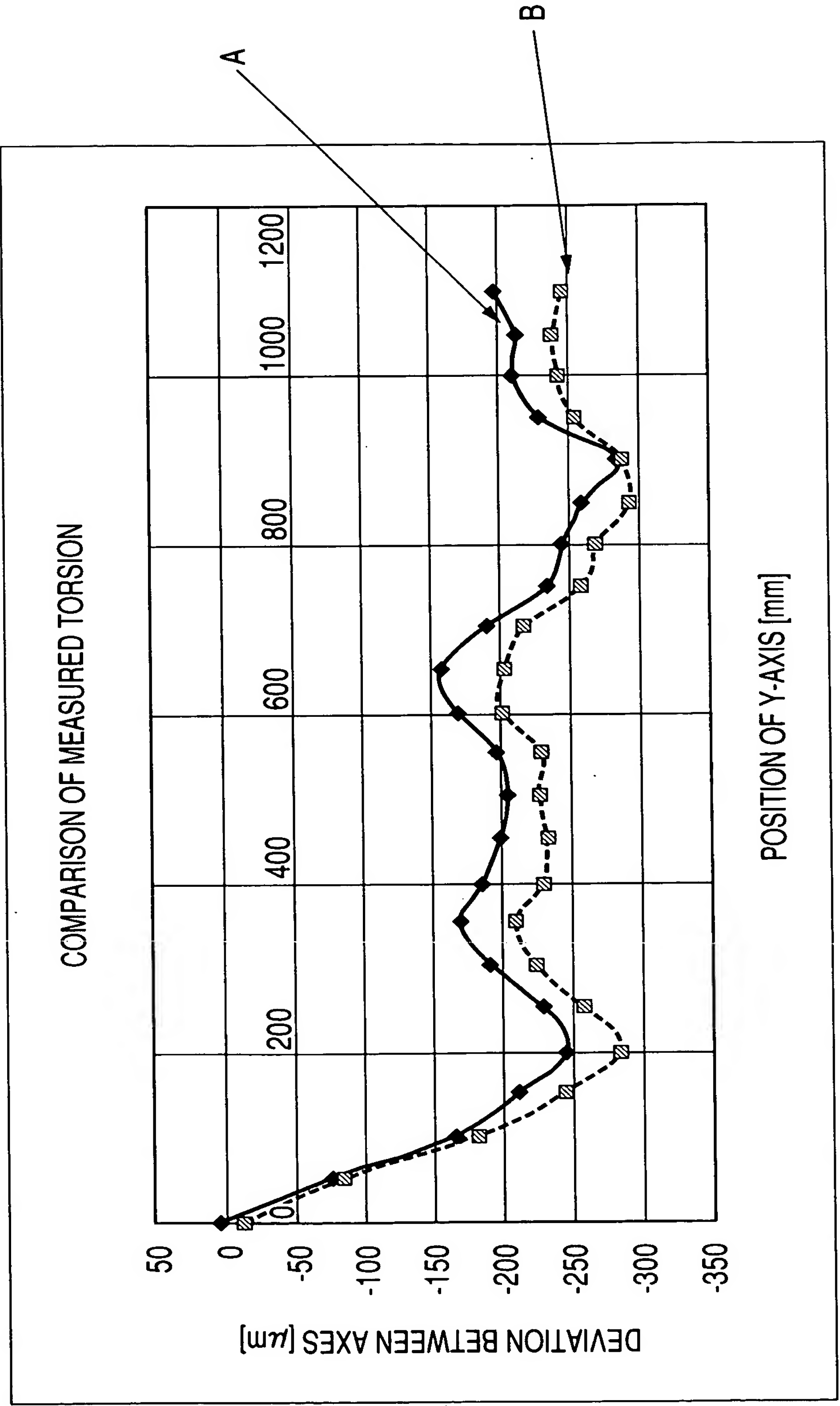


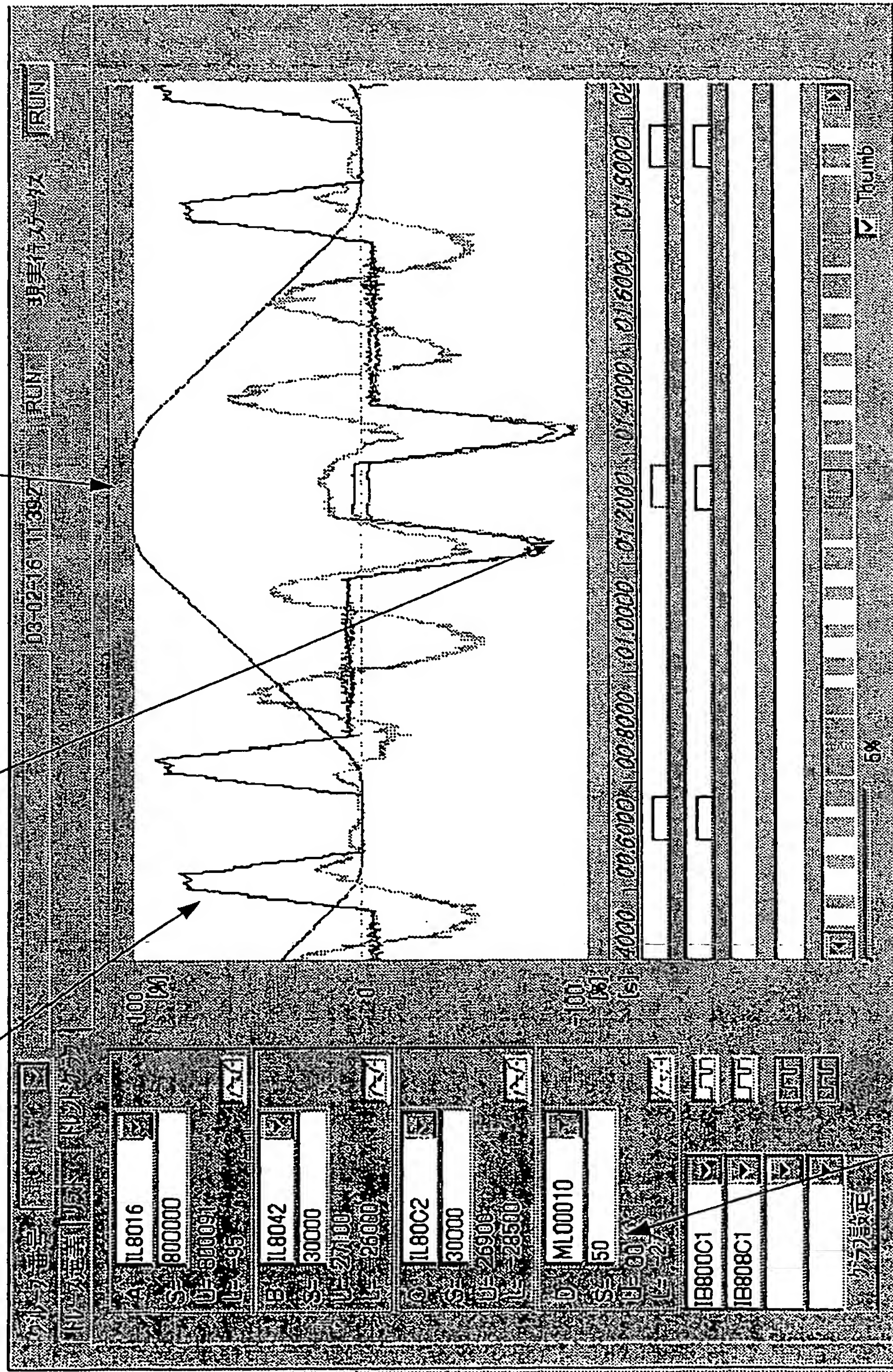
FIG. 4



A: MEASURED VALUE BY LASER DISPLACEMENT GAUGE
B: MEASURED VALUE BY CONTROLLER

FIG. 5

- 2. MAIN TORQUE COMMAND
- 3. TORQUE COMMAND OF CORRECTING SIDE
- 1. MAIN POSITION COMMAND



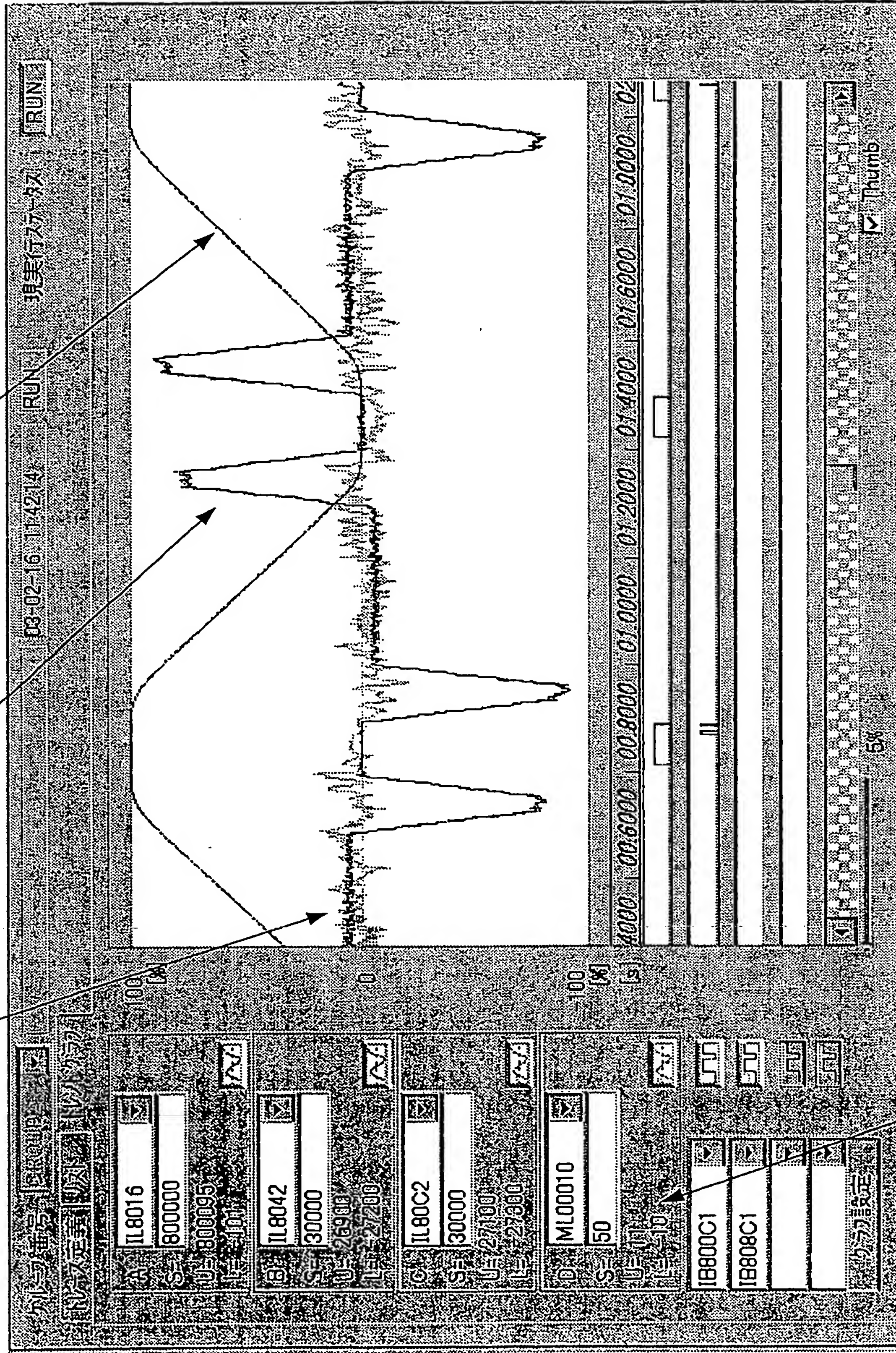
4. DEVIATION BETWEEN TWO AXES (MAXIMUM VALUE OF 30μm)

FIG. 6

3. TORQUE COMMAND OF CORRECTING SIDE

2. MAIN TORQUE COMMAND

1. MAIN POSITION COMMAND



4. DEVIATION BETWEEN TWO AXES (MAXIMUM VALUE OF 11μm)

FIG. 7

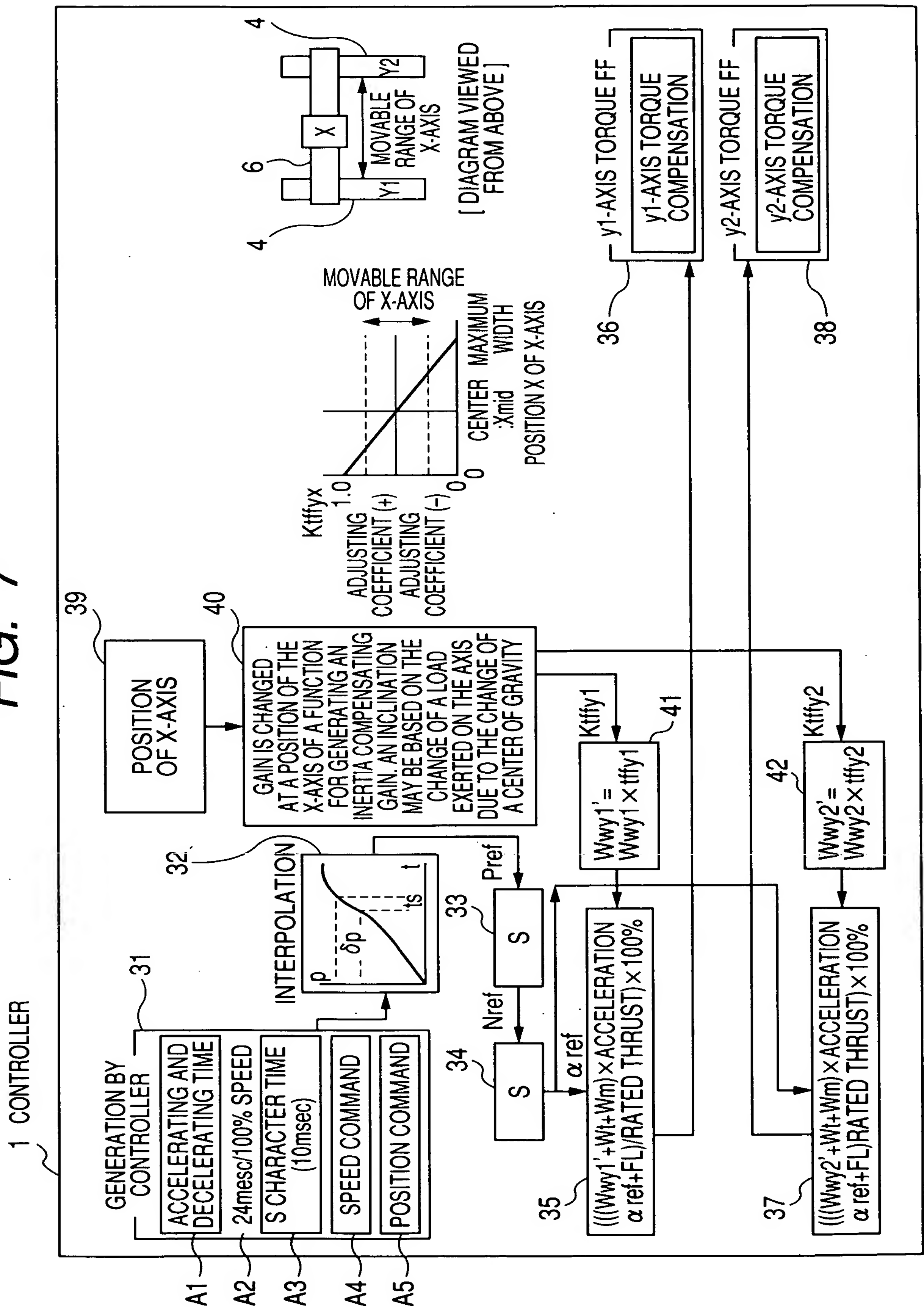


FIG. 8

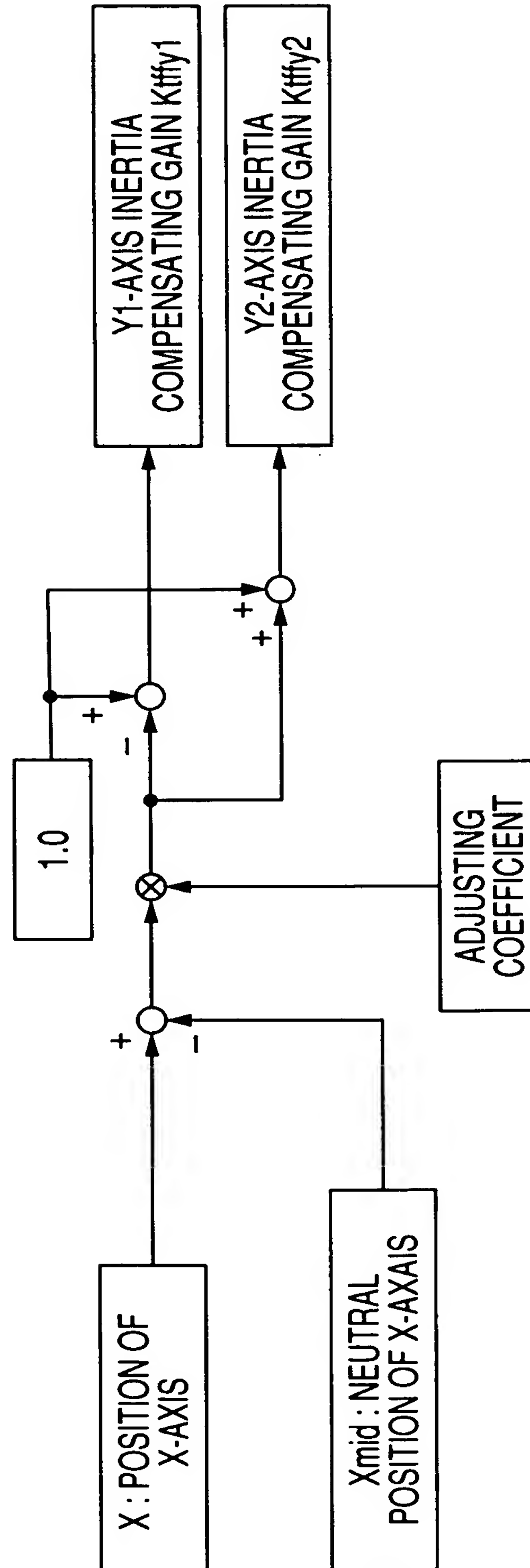
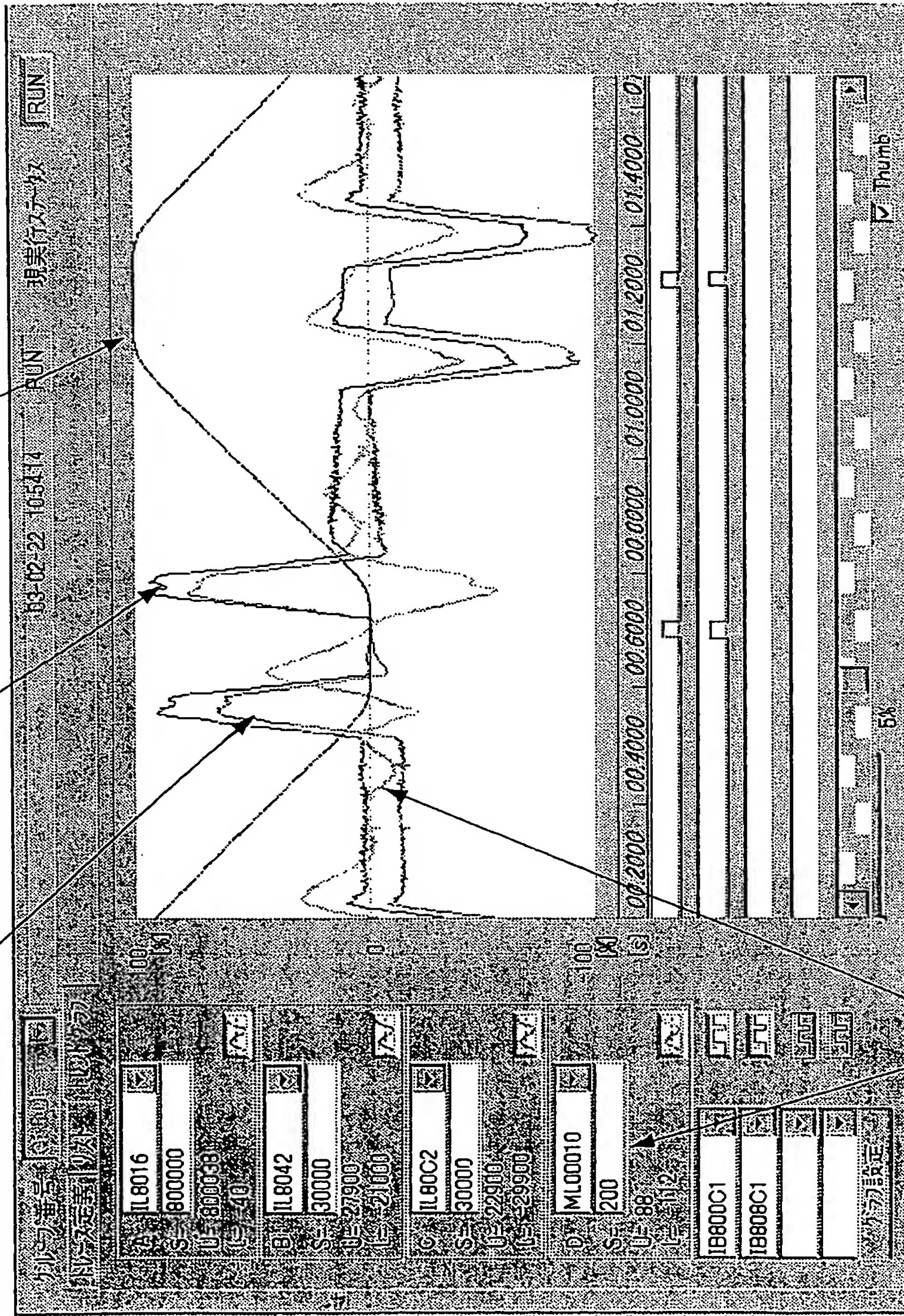


FIG. 9

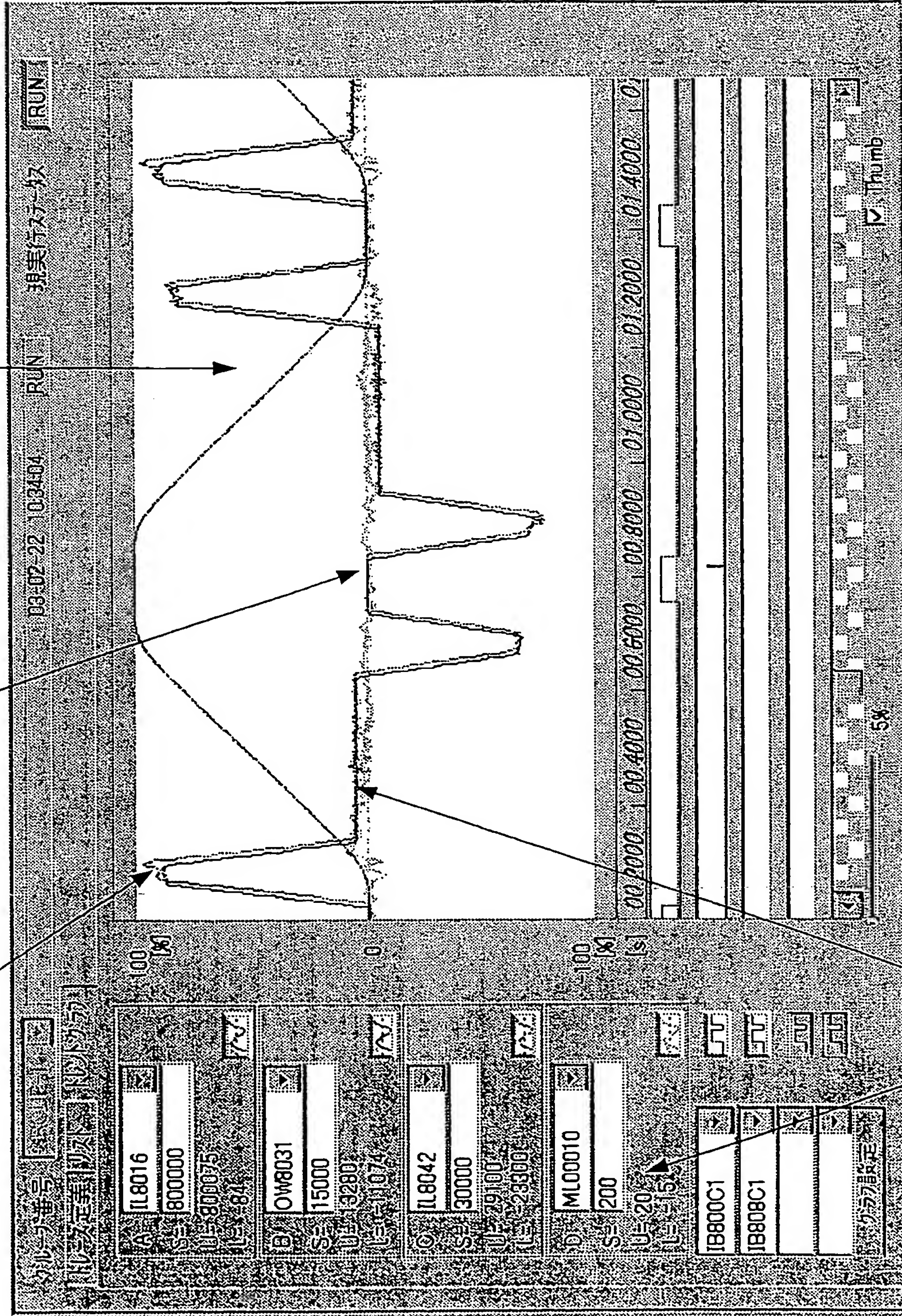
- 2. TORQUE FF OF Y1 SIDE
- 3. ACTUAL TORQUE COMMAND OF Y1 SIDE
- 1. MAIN POSITION COMMAND



4. DEVIATION BETWEEN TWO AXES (MAXIMUM VALUE OF 112 μ m)

FIG. 10

3. ACTUAL TORQUE COMMAND OF Y1 SIDE
2. TORQUE FF OF Y1 SIDE
1. MAIN POSITION COMMAND



4. DEVIATION BETWEEN TWO AXES (MAXIMUM VALUE OF 20 μm)